

FEDERAL R&D BUDGET AUTHORITY
BY BUDGET FUNCTION

Table 1. Federal R&D budget authority, by budget function: fiscal years 1998-2000

2000 rank	Budget function	1998	1999	2000	Percent change	
		actual	preliminary	proposed	1998-99	1999-2000
		[In millions of dollars]				
	Total.....	73,569	76,886	75,415	4.5	-1.9
1	National defense.....	39,823	40,387	37,710	1.4	-6.6
2	Health.....	13,576	15,479	15,824	14.0	2.2
3	Space research and technology.....	8,198	8,239	8,422	0.5	2.2
4	General science ¹	4,360	4,739	4,951	8.7	4.5
5	Natural resources and environment.....	1,855	1,928	1,944	3.9	0.8
6	Transportation.....	1,833	1,731	1,840	-5.6	6.3
7	Agriculture.....	1,249	1,352	1,522	8.2	12.6
8	Energy ¹	948	1,164	1,348	22.8	15.8
9	Veterans benefits and services.....	587	674	663	14.8	-1.6
10	Education, training, employment, and social services.....	444	457	491	2.9	7.4
11	Commerce and housing credit.....	398	401	448	0.8	11.7
12	International affairs.....	163	165	115	1.2	-30.3
13	Administration of justice.....	72	82	59	13.9	-28.0
14	Community and regional development.....	42	49	51	16.7	4.1
15	Income security.....	18	37	24	105.6	-35.1
16	General government.....	2	2	2	0.0	0.0

¹Beginning in FY 1998, a number of DOE programs were reclassified from energy (270) to general science (251).

NOTES: Because of rounding, components may not add to the totals shown. Percent change is derived from unrounded data.

SOURCE: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

**Table 2. Distribution of total Federal R&D budget authority,
by function: fiscal years 1998-2000**

[In percentages]

2000 rank	Budget function	1998 actual	1999 preliminary	2000 proposed
	Total.....	100.0	100.0	100.0
1	National defense.....	54.1	52.5	50.0
2	Health.....	18.5	20.1	21.0
3	Space research and technology.....	11.1	10.7	11.2
4	General science ¹	5.9	6.2	6.6
5	Natural resources and environment.....	2.5	2.5	2.6
6	Transportation.....	2.5	2.3	2.4
7	Agriculture.....	1.7	1.8	2.0
8	Energy ¹	1.3	1.5	1.8
9	Veterans benefits and services.....	0.8	0.9	0.9
10	Education, training, employment, and social services.....	0.6	0.6	0.7
11	Commerce and housing credit.....	0.5	0.5	0.6
12	International affairs.....	0.2	0.2	0.2
13	Administration of justice.....	0.1	0.1	0.1
14	Community and regional development.....	0.1	0.1	0.1
15	Income security.....	*	*	*
16	General government.....	*	*	*

¹Beginning in FY 1998, a number of DOE programs were reclassified from energy (270) to general science (251).

* = Less than one-tenth of one percent.

NOTE: Because of rounding, components may not add to totals.

SOURCE: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

**Table 3. Federally funded R&D for national defense and civilian functions:
fiscal years 1955-2000**

Page 1 of 2

Fiscal years	Current dollars			Constant 1992 dollars ¹			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
	[In millions of dollars]							
1955.....	2,533	2,151	382	12,266	10,416	1,850	84.9	15.1
1956.....	2,988	2,535	453	14,081	11,946	2,135	84.8	15.2
1957.....	3,932	3,327	605	17,865	15,116	2,749	84.6	15.4
1958.....	4,570	3,801	769	20,239	16,833	3,406	83.2	16.8
1959.....	6,694	5,556	1,138	29,079	24,136	4,944	83.0	17.0
1960.....	7,552	6,107	1,445	32,510	26,289	6,220	80.9	19.1
1961.....	9,059	7,005	2,054	38,434	29,720	8,714	77.3	22.7
1962.....	10,290	7,238	3,052	43,163	30,361	12,802	70.3	29.7
1963.....	12,495	7,764	4,731	51,803	32,189	19,614	62.1	37.9
1964.....	14,225	7,829	6,396	58,180	32,020	26,160	55.0	45.0
1965.....	14,614	7,342	7,272	58,785	29,533	29,252	50.2	49.8
1966.....	15,320	7,536	7,784	60,244	29,634	30,610	49.2	50.8
1967.....	16,529	8,566	7,963	63,016	32,657	30,358	51.8	48.2
1968.....	15,921	8,275	7,646	58,469	30,389	28,079	52.0	48.0
1969.....	15,641	8,356	7,285	55,016	29,391	25,624	53.4	46.6
1970.....	15,339	7,981	7,358	51,250	26,666	24,584	52.0	48.0
1971.....	15,543	8,110	7,433	49,390	25,771	23,619	52.2	47.8
1972.....	16,496	8,902	7,594	50,033	27,000	23,033	54.0	46.0
1973.....	16,800	9,002	7,798	48,809	26,153	22,655	53.6	46.4
1974.....	17,410	9,016	8,394	47,169	24,427	22,742	51.8	48.2
1975.....	19,039	9,679	9,360	46,767	23,775	22,992	50.8	49.2
1976.....	20,780	10,430	10,350	47,606	23,895	23,711	50.2	49.8
1977.....	23,450	11,864	11,586	49,925	25,259	24,667	50.6	49.4
1978.....	25,976	12,899	13,077	51,663	25,654	26,008	49.7	50.3
1979.....	28,208	13,791	14,417	51,815	25,332	26,482	48.9	51.1
1980.....	29,739	14,946	14,793	50,167	25,213	24,954	50.3	49.7
1981.....	33,735	18,413	15,322	51,804	28,275	23,529	54.6	45.4
1982.....	36,115	22,070	14,045	51,800	31,655	20,145	61.1	38.9
1983.....	38,768	24,936	13,832	53,151	34,187	18,964	64.3	35.7
1984.....	44,214	29,287	14,927	58,361	38,658	19,703	66.2	33.8

See explanatory notes and SOURCE at end of table.

**Table 3. Federally funded R&D for national defense and civilian functions:
fiscal years 1955-2000**

Page 2 of 2

Fiscal years	Current dollars			Constant 1992 dollars ¹			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
[In millions of dollars]								
1985.....	49,887	33,698	16,189	63,656	42,999	20,657	67.5	32.5
1986.....	53,249	36,926	16,323	66,066	45,814	20,252	69.3	30.7
1987.....	57,069	39,152	17,917	68,816	47,211	21,605	68.6	31.4
1988.....	59,106	40,099	19,007	68,880	46,730	22,150	67.8	32.2
1989.....	62,115	40,665	21,450	69,449	45,466	23,983	65.5	34.5
1990.....	63,781	39,925	23,856	68,471	42,861	25,610	62.6	37.4
1991.....	65,898	39,328	26,570	67,831	40,482	27,349	59.7	40.3
1992.....	68,398	40,083	28,315	68,398	40,083	28,315	58.6	41.4
1993	69,884	41,249	28,635	68,087	40,188	27,898	59.0	41.0
1994	68,331	37,764	30,566	65,003	35,925	29,078	55.3	44.7
1995	68,791	37,204	31,587	63,903	34,560	29,343	54.1	45.9
1996.....	69,049	37,801	31,248	62,909	34,440	28,469	54.7	45.3
1997.....	71,653	39,591	32,062	64,073	35,403	28,670	55.3	44.7
1998.....	73,569	39,823	33,746	65,007	35,189	29,818	54.1	45.9
1999.....	76,886	40,387	36,499	67,067	35,230	31,838	52.5	47.5
2000.....	75,415	37,710	37,704	64,496	32,250	32,245	50.0	50.0

¹Calculated using fiscal year GDP implicit price deflators with 1992 as the base year.

NOTES: The national defense function includes Department of Defense's military activities and Department of Energy's atomic energy defense programs. Civilian functions include all other federally funded R&D activities. Data for 1955-77 are obligations. Data for 1978-98 are actual budget authority. Data for 1999 are preliminary estimates of budget authority. Data for 2000 are budget authority proposed by the administration.

SOURCE: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 4. Federal budget authority for basic research, by budget function: fiscal years 1998-2000

2000 rank	Budget function	1998 actual	1999 preliminary	2000 proposed	Percent change	
					1998-99	1999-2000
		[In millions of dollars]				
	Total.....	15,523	17,287	18,101	11.4	4.7
4	National defense.....	1,067	1,158	1,152	8.6	-0.5
1	Health.....	7,356	8,429	8,590	14.6	1.9
3	Space research and technology.....	1,610	1,719	1,841	6.8	7.1
2	General science ¹	4,121	4,471	4,710	8.5	5.3
7	Natural resources and environment.....	145	169	175	16.1	3.5
6	Transportation.....	411	438	634	6.5	44.8
5	Agriculture.....	571	657	736	15.1	12.1
9	Energy ¹	34	36	46	5.1	27.4
11	Veterans benefits and services.....	23	20	19	-15.9	-1.7
8	Education, training, employment, and social services.....	133	135	144	1.5	6.7
10	Commerce and housing credit.....	35	36	38	2.9	6.5
13	International affairs.....	1	1	1	0.0	0.0
12	Administration of justice.....	16	18	15	12.5	-16.7
14	Community and regional development.....	0	0	0	NA	NA
15	Income security.....	0	0	0	NA	NA
16	General government.....	0	0	0	NA	NA

¹Beginning in FY 1998, a number of DOE programs were reclassified from energy (270) to general science (251).

KEY: NA = Not applicable

NOTES: Because of rounding, components may not add to the totals shown. Percent change is derived from unrounded data.

Budget function categories are arranged according to the total Federal funding of R&D for FY 2000 but are ranked according to the basic research component.

SOURCE: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 5. Federal R&D budget authority as a percentage of each function's total budget authority: fiscal years 1998-2000

2000 rank	Budget function	1998 actual	1999 preliminary	2000 proposed
	All functions conducting R&D.....	8.0	7.9	7.6
3	National defense.....	14.7	14.6	13.4
5	Health.....	10.0	10.9	10.2
2	Space research and technology.....	66.5	66.1	67.3
1	General science ¹	76.8	74.3	73.1
6	Natural resources and environment.....	7.6	8.1	8.1
7	Transportation.....	4.0	3.4	3.4
4	Agriculture.....	9.8	5.5	10.8
16	Energy ^{1,2}	320.2	-375.4	-59.7
9	Veterans benefits and services.....	1.4	1.6	1.5
10	Education, training, employment, and social services.....	0.7	0.8	0.8
8	Commerce and housing credit.....	2.8	7.7	3.1
11	International affairs.....	1.1	0.4	0.7
13	Administration of justice.....	0.3	0.3	0.2
12	Community and regional development.....	0.4	0.5	0.6
15	Income security.....	*	*	*
14	General government.....	*	*	*

¹Beginning in FY 1998, a number of DOE programs were reclassified from energy (270) to general science (251).

²R&D as percentage of total budget authority is greater than 100 percent or negative because gross budget authority has been reduced by offsetting receipts. In FY 1999 and 2000, offsetting receipts exceeded gross budget authority.

* = Less than one-tenth of 1 percent.

NOTES: Total budget authority includes discretionary and mandatory budget authority, less offsets.

Budget function categories are arranged according to the total Federal funding of R&D for FY 2000 but are ranked according to the percentage of each budget function's R&D component to its total budget authority.

SOURCE: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; supplemental data obtained from the agencies' budget offices; Office of Management and Budget, *Budget of the United States Government, Fiscal Year 2000, Washington, DC: February, 1999 (Table 34-1)*.